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SELECTED BIBLIOGRAPHY ON PELAGIC FISH EGG AND LARVA SURVEYS

BIBLIOGRAPHIE SÉLECTIVE SUR LES PROSPECTIONS D'ŒUFS ET DE LARVES DE POISSONS PÉLAGIQUES

BIBLIOGRAFIA SELECCIONADA SOBRE RECONOCIMIENTOS DE HUEVOS Y LARVAS DE PECES PELAGICOS

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
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BIBLIOGRAFIA SELECCIONADA SOBRE RECONOCIMIENTOS DE HUEVOS Y LARVAS DE PECES PELAGICOS

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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ORGANISATION DES NATIONS UNIES POUR L'ALIMENTATION ET L'AGRICULTURE
ORGANIZACION DE LAS NACIONES UNIDAS PARA LA AGRICULTURA Y LA ALIMENTACION

Rome, July 1979 Rome, juillet 1979 Roma, julio 1979

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PREPARATION OF THIS CIRCULAR

This bibliography was assembled in the course of preparing the FAO manual on ichthyoplankton surveys (Standard Techniques for Pelagic Fish Egg and Larva Surveys, by P.E. Smith and S.L. Richardson. FAO Fisheries Technical Paper No. 175). Like the manual, the bibliography is based on recommendations made by the FAO Advisory Committee on Marine Resources Research at its fourth and fifth sessions and subsequent activities of the Committee's Working Party on Fish Egg and Larva Surveys.

It is hoped that the references cited herein, organized taxonomically and geographically, will be useful to researchers, particularly in developing countries, who are undertaking ichthyoplankton surveys and may have difficulty in locating reports of previous work, some of it highly specialized, in a very large and scattered body of scientific literature.

PREPARATION DE LA PRESENTE CIRCULAIRE

Cette bibliographie a été rassemblée lors de la préparation du manuel de la FAO sur les prospections relatives à l'ichtyoplancton (Standard Techniques for Pelagic Fish Egg and Larva Surveys, par P.E. Smith et S.L. Richardson. FAO Fisheries Technical Paper No. 175). Comme le manuel, la bibliographie est basée sur des recommandations formulées par le Comité consultatif FAO de la recherche sur les ressources de la mer à ses quatrième et cinquième sessions, et sur les activités ultérieures du Groupe de travail du CCRRM sur les études relatives aux oeufs et aux larves.

L'on espère que les références citées dans ce document selon des critères taxonomiques et géographiques seront utiles aux chercheurs qui, notamment dans les pays en développement, lorsqu'ils entreprennent des prospections sur l'ichtyoplancton ont parfois des difficultés à trouver des rapports sur les travaux antérieurs, dont certains sont hautement spécialisés, dans une littérature scientifique caractérisée par son abondance et sa dispersion.

PREPARACION DE ESTA CIRCULAR

La bibliografía aquí presentada se ha recopilado durante la preparación del manual de la FAO sobre reconocimientos ictioplanctónicos (Standard Techniques for Pelagic Fish Egg and Larva Surveys, por P.E. Smith y S.L. Richardson. FAO Fisheries Technical Paper No. 175). Al igual que el manual, la bibliografía se basa en las recomendaciones formuladas por el Comité Asesor sobre Investigaciones de los Recursos Marinos durante sus reuniones cuarta y quinta y en las actividades realizadas posteriormente por el Grupo de Trabajo sobre Reconocimientos de Huevos y Larvas de Peces, del citado comité.

Confiamos en que esta bibliografía, ordenada por grupos taxonómicos y regiones geográficas sea útil a los investigadores, especialmente de países en desarrollo, que se ocupan de reconocimientos ictioplanctónicos y a menudo encuentran dificultades para localizar entre la enorme masa de publicaciones científicas, los informes sobre los trabajos ya realizados, algunos de ellos de carácter muy especializado.

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PREFACE

It is worthwhile examining the ichthyoplankton survey technique as it now stands. The bibliography is fairly complete through 1973 and can be taken as a rough measure of the vigor and growth of this field of fishery research. Almost all of the entries (well over a thousand) are from this century. The publication rate has risen from approximately one title per year around 1910 to ten per year around 1940 to some fifty per year around 1970. Essential descriptive work on the immature stages of fish is still a major contribution to the new literature, and it appears there is also much basic work in progress on survey techniques.

It is hoped that this bibliography will, in addition to providing a guide to existing knowledge, promote the comparison of methods and results and facilitate regional quantitative surveys employing sound and standard techniques. In some cases, surveys of this type are the most suitable way to monitor the abundance of exploited species, assess unexploited or lightly exploited stocks and study the mechanisms determining recruitment.

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PREFACE

La technique des prospections de l'ichtyoplancton, telle qu'elle existe actuellement, vaut la peine d'être examinée. La bibliographie est à peu près complète jusqu'à l'année 1973 et peut donner une idée de la vigueur et de la croissance de ce secteur de la recherche halieutique. Presque toutes les entrées (bien au-delà d'un millier) appartiennent au vingtième siècle. Le taux de publication a augmenté, passant d'un titre par an vers 1910 à une dizaine de titres annuels vers 1940, pour atteindre la cinquantaine lors des années soixante-dix. L'exposé descriptif fondamental des stades immatures du poisson demeure l'un des apports majeurs à cette littérature récente, bien que bon nombre de travaux fondamentaux soient consacrés actuellement aux techniques de prospection.

L'on espère que cette bibliographie, tout en servant de guide des connaissances existantes, permettra de comparer les méthodes et les résultats entre eux et favorisera l'application de techniques normalisées et fiables aux prospections quantitatives régionales. Dans certains cas, les travaux de ce type sont l'outil le mieux approprié pour mesurer l'abondance des espèces exploitées, évaluer les stocks non utilisés ou sous-exploités et étudier les mécanismes qui régissent le recrutement.

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PREFACIO

Es interesante observar el estado actual de las técnicas de reconocimiento ictioplanctónico. La bibliografía que aquí presentamos incluye casi cuanto se ha publicado hasta 1973 inclusive y permite apreciar, en general, el vigor y desarrollo de este sector de la investigación pesquera. Casi todas las publicaciones incluidas (más de mil) son de este siglo, pero mientras hacia 1910 sólo se publicaba sobre este tema un título al año, aproximadamente, por 1940 encontramos ya 10 títulos al año y en 1970, hasta 50. Los trabajos esenciales de descripción de las fases inmaduras de los peces siguen siendo un elemento importante de las publicaciones sobre estos temas, y la bibliografía muestra que también son importantes los trabajos básicos sobre técnicas de reconocimiento.

Confiamos en que esta bibliografía, además de servir de orientación sobre los conocimientos actuales en este campo, fomente la comparación de métodos y resultados y facilite la realización, a nivel regional, de reconocimientos cuantitativos con técnicas válidas y uniformes. En algunos casos, los reconocimientos de este tipo constituyen el medio más adecuado para determinar la abundancia de las especies explotadas, evaluar el volumen de poblaciones inexplotadas o explotadas sólo ligeramente, y estudiar los mecanismos que determinan el reclutamiento a la población.

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1. SCOPE, COVERAGE AND ORGANIZATION

This bibliography is intended to provide access to published information on ichthyoplankton survey methods, identification of fish eggs and larvae, and results of surveys that have been carried out in the past. Although the bibliography is selective, its coverage includes all published works through 1973, and it has been extended by the addition of all papers presented at the Oban Symposium and published in the symposium proceedings (Blaxter, J.H.S. (ed.) 1974. The early life history of fish. Springer-Verlag, Berlin).

The first five sections of this bibliography list works by name and date only according to subject category. Section 2 contains references on survey equipment and methods. Section 3 includes descriptions of early life stages organized by taxonomic group. Section 4 lists references on species identification of fish eggs and larvae by region (specifically, by FAO statistical area). Section 5 has reports of survey results, also by region. The bibliography itself, with full citations, is Section 6.

1. PORTEE, CHAMP D'APPLICATION ET ORGANISATION

Cette bibliographie a pour objet d'ouvrir l'accès à l'information publiée touchant les méthodes de prospection d'ichtyoplancton, l'identification des oeufs et des larves de poisson et les résultats des études qui ont été faites dans le passé. Bien qu'elle soit sélective, son champ d'application inclut tous les travaux publiés jusqu'en 1974, et on l'a élargi par l'adjonction de tous les documents soumis au Symposium d'Oban et publiés dans le rapport de ce symposium (Blaxter, J.H.S. (ed.) 1974. The early life history of fish. Springer-Verlag, Berlin).

Dans les cinq premières sections de cette bibliographie sont énumérés des travaux dont on indique le nom et la date, avec ventilation par catégorie de sujets. La Section 2 contient des références sur les méthodes suivies et l'équipement utilisé pour les prospections. La Section 3 inclut des descriptions des stades biologiques initiaux classés par groupe taxonomique. La Section 4 comporte des listes de références sur l'identification des espèces d'oeufs et de larves par région (plus précisément, par zone statistique de la FAO). A la Section 5 figurent des rapports donnant les résultats des prospections, eux-mêmes par région. La bibliographie elle-même, assortie de citations complètes, se trouve à la Section 6.

1. FINALIDAD, ALCANCE Y ESTRUCTURACIÓN

Esta bibliografía se propone facilitar el acceso a la información publicada sobre métodos de reconocimiento ictioplanctónico, identificación de huevos y larvas de peces, y resultados de reconocimientos efectuados en el pasado. Aunque se trata de una bibliografía selectiva, se han incluido todas las obras publicadas hasta 1973, añadiendo además los documentos presentados al simposio de Oban y publicados en las actas del mismo (Blaxter, J.H.S. (ed.) 1974. The early life history of fish. Sprinter-Verlag, Berlin).

En las cinco primeras secciones de esta bibliografía se indica sólo el autor y la fecha de las publicaciones, agrupadas por temas. La Sección 2 reúne los trabajos sobre equipo y métodos de reconocimiento. La Sección 3 presenta las descripciones de las primeras fases vitales ordenadas por grupos taxonómicos. En la Sección 4 figuran las publicaciones que se ocupan de identificación de especies de huevos y larvas de peces, por regiones (áreas estadísticas de la FAO). La Sección 5 incluye los informes publicados sobre resultados de reconocimientos, también por regiones. La bibliografía propiamente dicha, con citas bibliográficas completas, constituye la Sección 6.

The following specialists have kindly collaborated in the compilation of this selected bibliography, each for the region he or she is most familiar with:

Les spécialistes dont les noms suivent ont collaboré à la préparation de cette bibliographie sélective, chacun d'entre eux pour la région avec laquelle il est particulièrement familiarisé:

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Indian Ocean Coastal Waters/Eaux côtières de l'océan Indien/Aguas costeras del océano Indico: W. NELLEN (Institut für Meereskunde, Kiel, F.R.G.)

Western Central Pacific/Pacifique centro-ouest/Pacífico Centro-occidental: S. MITO (Southeast Asian Fisheries Development Center, Singapore)

Eastern Central Pacific/Pacifique centre-est/Pacífico Centro-oriental: E.H. AHLSTROM (Southwest Fisheries Center, La Jolla, California, U.S.A.)

Southeast Pacific/Pacifique sud-est/Sudeste del Pacífico: B.R. de MENDIOLA (Instituto del Mar, Lima, Peru) and/et/y O. ROJAS (Instituto Fomento Pesquero, Santiago, Chile)

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Murphy, G.I. & R.I. Clutter, 1972
Orton, G., 1953a; 1955; 1957
Packard, A. & A.W. Wainwright, 1974
Parrish, B.B., I.G. Baxter & M.J.D. Mowat, 1960
Pommeranz, T., 1974
Powles, P.M., 1974
Purdom, C.E. & R.F. Lincoln, 1974
Rass, T.S., 1947; 1953; 1964
Rice, S.D. & R.M. Stokes, 1974
Richards, W.J. & F.H. Berry, 1973
Richards, W.J. & B.J. Palko, 1969
Rosenthal, H. & K.R. Sperling, 1974
Saville, A., 1964
Schnack, D., 1974
Schumann, G.O., 1965
Shelbourne, J.E., 1964; 1965
Silva, C. de, 1974
Simpson, A.C., 1956
Smith, P.E. & R.I. Clutter, 1965
Smith, P.E., R.C. Counts & R.I. Clutter, 1968
Surtzer, 1967
Tanaka, S., 1974
Taning, A.V., 1952
Taunti, M., 1927
Taylor, W.R., 1967
Theilacker, G.H. & R. Lasker, 1974
Wilson, K.W., 1974

3. REFERENCES ON SPECIES IDENTIFICATION OF EGGS AND LARVAE, GROUPED TAXONOMICALLY/REFERENCES SUR L'IDENTIFICATION DES ESPECES D'OEUFS ET DE LARVES, GROUPEES SELON DES CRITERES TAXONOMIQUES/BIBLIOGRAFIA SOBRE IDENTIFICACION DE ESPECIES DE HUEVOS Y LARVAS, POR GRUPOS TAXONOMICOS

3.1 Anguilliformes

Beebe, W. & J. Crane, 1936; 1937
Bertin, L., 1938
Blache, J., 1964; 1968; 1968a; 1971; 1972
Castle, P.H.J, 1963; 1965; 1965a; 1965b; 1969; 1970
Eldred, B., 1966; 1967; 1968; 1968a; 1968b; 1968c; 1968d; 1969; 1969a; 1970; 1970a; 1970b; 1971
Eziuzo, E.N.C., 1965
Grassi, G.B., 1913
Orton, G., 1963; 1964a; 1964b
Raju, S.N., 1974
Richardson, S.L., 1974
Roule, L. & L. Bertin, 1929
Schmidt, J., 1925
Smith, D.G., 1969; 1970
Smith, D.G. & P.H.J. Castle, 1972
Sparta, A., 1938; 1939
Tommasi, L.R., 1960
Uchida, K., A. Kataoka & T. Takai, 1968

3.2 Elopiformes

Wode, R.A., 1962

3.2.1 Elopidae

Eldred, B., 1967a; 1968a; 1972
Eldred, B. & W.G. Lyons, 1966
Gehringer, J.W., 1959
Mercado, J.E.S. & A. Ciardelli, 1972
Wade, R.A., 1962

3.2.2 Albulidae

Alexander, E.C., 1961
Eldred, B., 1967
Fitch, J.E., 1950
Smith, J.L.B., 1966

3.3 Clupeiformes

3.3.1 Clupeidae

Ahlstrom, E.H., 1943
Bainbridge, V., 1961; 1962
Baker, A.N., 1972; 1973
Bensam, P., 1971; 1971a
Conand, F. & E. Fagetti, 1971
Dakin, W.J. & A. Colifax, 1934
Davies, D.H., 1954
Dessier, A., 1969
Hettler, W.F., Jr., 1968; 1970
Houde, E.D. & P.L. Fore, 1973
Houde, E.D. et al., 1974
Hukuda, H., 1934
Kondo, K., 1951
Krezelj, S., 1971
Lebour, M.V., 1921
Lewis, R.M., E.P.H. Wilkens & H.R. Gordy, 1972
Matsura, Y-. 1974
Miller, D.J., 1952
Nakai, Z., 1948
Reintjes, J.W., 1962
Richards, W.J. et al., 1973
Richards, W.J., R.V. Miller & E.D. Houde, 1974
Saville, A.M., 1964a
Scofield, E.C., 1934
Scofield, E.C. & M.J. Linder, 1930
Simpson, J.G. & G. Gonzalez, 1967
Suttkus, R.D., 1956
Takita, T., 1966
Turner, W.R., 1969
Zhen-Ran, Chen & Chang Hsiao-Wei, 1965

3.3.2 Clupeidae - Engraulidae

Ciechomski, J.D., 1973; 1973a
Fage, L., 1920
Marchal, E.G., 1967

3.3.3 Engraulidae

Atlan, H., 1957
Balakrishnan, K.P., 1969
Bolin, Rolf L., 1936
Ciechomski, J.D. de 1965
Einarsson, H. & B. Rojas de Mendiola, 1963
Fischer, W.K., 1958a
Marchal, E.G., 1966
Simpson, J.G., 1959; 1965
Takita, T., 1967

3.4 Salmoniformes

3.4.1 Argentinoidei (Argentinidae, Bathylagidae, Opisthoproctidae)

Ahlstrom, E.H., 1971a
Beebe, W., 1933
Schmidt, J., 1906; 1918
Taning, A.V., 1931

3.4.2 Salmonoidei (Osmeridae)

Hikita, T., 1958
Yap-Chiongco, J.V., 1949

3.4.3 Stomiatoidei

3.4.3.1 Gonostomatidae - Sternoptychidae

Ahlstrom, E.H., 1974
Ahlstrom, E.H. & R.C. Counts, 1958
Ahlstrom, E.H. & H.G. Moser, 1969
Badcock, J.R. & N.R. Merritt, 1972
Grey, M., 1964
Jespersen, P. & A.V. Taning, 1919; 1926
Kawaguchi, K. & R. Marumo, 1967
Okiyama, M., 1971
Sanzo, L., 1912; 1913; 1913a; 1930
Silas, E.G. & K.C. George, 1971

3.4.3.2 Other Stomiatoid Families/Autres familles de poissons stomiatoidés/Otras familias de peces estomatoides

Beebe, W., 1934
Beebe, W. & J. Crane, 1939
Ege, V., 1934; 1948

3.5 Myctophiformes

Okiyama, M., 1974

3.5.1 Myctophidae

(see Moser and Ahlstrom 1970, for additional references)/(voir Moser et Ahlstrom 1970, pour références supplémentaires)/(véase Moser y Ahlstrom 1970, para otras referencias)

Moser, H.G. & E.H. Ahlstrom, 1970; 1972; 1974
Pertseva-Ostroumova, T.A., 1964; 1967; 1974
Taning, A.V., 1919

3.5.2 Other Myctophiform Families/Autres familles de poissons myctophiformes/Otras familias de peces mictofiformes

Anderson, W.W., J.W. Gehringer & F.H. Berry, 1966
Ege, V., 1930; 1953; 1957; 1958
Gibbs, R.H., Jr., 1959
Johnson, R.K., 1971
Merrett, N.R., J. Badcock & P.J. Herring, 1973
Okiyama, M., 1974
Rofen, R.R., 1966; 1966a; 1966b
Zvjagina, O.A., 1965

3.6 Gadiformes

3.6.1 Gadoidei (Gadidae and Related)

Ahlstrom, E.H. & R.C. Counts, 1955
Barans, C.A. & A.C. Barans, 1972
Belyaninam, T.N., 1974
Cipria, G., 1939b
D'Ancona, U. & G. Cavinato, 1965
DeGaetani, D., 1928; 1933
Fischer, W.K., 1959
Gorbunova, N.N., 1954
Marak, R., 1967
Matthews, J.P., & V.v.D. DeJager, 1951
Miller, D. & R.R. Marak, 1959
Mukhacheva, V.A., 1957
Mukhacheva, V.A. & O.A. Zvyagina, 1960
Musick, J.A., 1969; 1974
Santander, H. & O.S. de Castillo, 1969a
Sauskan, V.I. & V.P. Serebriakov, 1968
Schmidt, J., 1905; 1906
Seaton, D.D. & R.S. Bailey, 1971
Yamamoto, G. & C. Nishioka, 1952
Yusa, T., 1954

3.6.2 Ophidioidei

3.6.2.1 Ophidiidae-Brotulidae

Nielsen, J.G., 1966
Sparta, A., 1929; 1932
Wourms, J.P. & O. Bayne, 1973

3.6.2.2. Carapidae

Sparta, A., 1925

3.7 Gobiescoiformes (Gobiesocidae)

Fujita, S. & Y. Dotsu, 1965
Runyan, S., 1961
Shiogaki, M. & Y. Dotsu, 1971; 1971a; 1971b; 1971c

3.8 Lophiiformes

Adams, J.A., 1960
Beretelsen, E., 1951
Fujita, S. & K. Uchida, 1959
Taning, A.V., 1923

3.9 Atheriniformes

3.9.1 Atherinoidei (Atherinidae)

Chirinos de Vildoso, A. & E.D. Chuman, 1964
Ciechomski, J.D. de, 1972
Ehrlich, K.F. & D.A. Farris, 1970; 1971
Foster, N.R., 1968
Hildebrand, S.F., 1922

3.9.2 Exocoetoidei

3.9.2.1 Scomberescoidae

Hatanaka, M., 1956
Hatanaka, M. et al., 1953
Nakamura, S., 1937
Orton, G.L., 1964
Sanzo, L., 1940a
Yusa, T., 1960a

3.9.2.2 Exocoetidae

Gorbunova, N.N. & N.V. Parin, 1963
Hubbs, C.L. & E.M. Kampa, 1946
Kovalevskaya, N.V., 1964; 1965
Kovalevskaya, N.V., N.V. Khrapkova, 1963
Miller, D.J., 1952
Munro, I.S.R., 1954
Parin, N.V. & N.N. Gorbunova, 1964
Tsukahara, H. & T. Shiokawa, 1957
Tsukahara, H., T. Shiokawa & T. Inao, 1957

3.10 Beryciformes

3.10.1 Stephanoberycoidei (Melamphaidae)

Ebeling, A.W., 1962
Ebeling, A.W. & W.H. Weed III, 1963; 1973

3.10.2 Holocentridae

McKenney, T.W., 1959

3.11 Lampridiformes

3.11.1 Trachypteroidei

Sanzo, L., 1918; 1925; 1940

3.11.2 Syngnathoidei

Nakamura, S., 1937
Takai, T. & A. Mizokami, 1959

3.12 Scorpaeniformes

3.12.1 Scorpaenoidei (Scorpaenidae)

DeLacy, A.C., C.R. Hitz & R.L. Dryfos, 1964
Efremenko, V.N. & L.A. Lisovenko, 1970

Fujita, S., 1957b; 1958; 1959
Fujita, S. & K. Nakurhara, 1955
Hitz, C.R., 1962
Mito, S. & K. Uchida, 1958
Morris, R.W., 1956a
Moser, H.G., 1967; 1972; 1974
Orton, G.L., 1955b
Pearcy, W.G., 1962
Phillips, J.B., 1964
Shiokawa, T. & H. Tsukahara, 1961
Takai, T. & T. Fukunaga, 1971
Taning, A.V. 1961
Tsukahara, H., 1962
Waldron, K.D., 1968
Wales, J.W., 1952

3.12.2 Cottoidei

3.12.2.1 Cottidae

Bolin, R.L., 1941
Cowan, G.I. McT., 1970
Fujita, S., 1957
Gorbunova, N.N., 1964
Khan, N.Y. & D.J. Faber, 1974
Kyushin, K., 1970
Morris, R.W., 1951
O'Connell, C.P., 1953
Stein, R., 1973
Tsukahara, H., 1952
Zvjagina, O.A., 1963

3.12.2.2 Cyclopteridae

Kobayashi, K., 1962b

3.12.3 Hexagrammoidei

3.12.3.1 Hexagrammidae

Abe, T., 1951
Gorbunova, N.N., 1962
Kobayashi, K., 1958
Orlov, Yu I. & L.V. Polikashin, 1962
Yusa, T., 1967

3.12.3.2 Anoplopomatidae

Brock, V.E., 1940
Kobayashi, K., 1957
Kodolov, L.S., 1968

3.12.4 Platycephaloidei (Platycephalidae)

Fujita, S. & M. Uneno, 1956

3.13 Perciformes

3.13.1 Percoidei

Norcross, J.J. et al., 1974

3.13.1.1. Bramidae

Mead, G.W., 1972
Okada, Y. & K. Suzuki, 1956
Sanzo, L., 1928
Schmidt, J., 1918a

3.13.1.2. Branchiostegidae

Fisher, W.K., 1958
Okiyama, M., 1964

3.13.1.3. Carangidae

Ahlstrom, E.H. & O.P. Ball, 1954
Aprieto, V.L., 1974
Berry, F.H., 1959
Ciechomski, J.D. de & G. Weiss, 1973
Conand, F. & C. Franqueville, 1973
Demir, M., 1971
Demir, N., 1958
Fields, H.M., 1962
Haigh, E.H., 1972a
Kakamura, S., 1936
McKenney, T.W., E.C. Alexander & G.L. Voss, 1958
Miller, J. & B.Y. Sumida, 1974
Mitani, F., 1960
Nakamura, S., 1936a
Okiyama, M., 1970
Santander, H. & O.S. de Castillo, 1971
Sanzo, L., 1931; 1933
Schankenbeck, W., 1931
Uchida, K. et al., 1958

3.13.1.4 Centropomidae

Chua, T.E., 1970

3.13.1.5 Chaetodontidae

Fujita, S. & S. Mito, 1960

3.13.1.6 Coryphaenidae

Mito, S., 1960

3.13.1.7 Kyphosidae

Kobayashi, K. & M. Igarashi, 1961
Mito, S., 1957a

3.13.1.8 Leiognathidae

Fujita, S., 1970

3.13.1.9 Oplegnathidae

Mito, S., 1956a

3.13.1.10 Pomacentridae

Fujita, S. 1957a
Limbaugh, C., 1964
Shaw, E.S., 1955
Turner, C.H. & E.E. Ebert, 1962

3.13.1.11 Priacanthidae

Caldwell, D.K., 1962

3.13.1.12 Rachycentridae

Dawson, C.E., 1971

3.13.1.13 Sciaenidae

Fujita, S., 1956b
Meyer-Rochow, V.B., 1972
Pearson, J.C. 1941
Welsh, W.W. & C.M. Breder, Jr., 1923

3.13.1.14 Serranidae

Guitart, M.D. & M.J. Fernandes, 1966
Kendall, A.W., Jr., 1972
Mito, S., 1957
Presley, R., 1970
Ukauwa, M., M. Higuchi & S. Mito, 1966

3.13.1.15 Sillaginidae

Ueno, M. & S. Fujito, 1954

3.13.1.16 Sparidae

Cassie, R.M., 1956
Ciechomski, J.D. de & G. Weiss, 1973b
Mito, S., 1956
Sikama, Y., 1961

3.13.2 Acanthuroidei

Cipria, G., 1940
Fujita, S. & M. Ueno, 1954
Randall, J.E., 1961

3.13.3 Ammodytoidei

Einarsson, H., 1951; 1955
Kobayashi, K., 1961b
Macer, C.T., 1967
Norcross, J.J., W.H. Massmann & E.B. Joseph, 1961
Williams, G.C., S.W. Richards & E.G. Farnworth, 1964

3.13.4 Blennoidei

3.13.4.1 Blennidae

Cipria, G., 1934; 1936
Fives, J., 1970
Ford, E., 1922
Mito, S., 1954
Munro, I.S.R., 1955
Raju, S.N., 1971

3.13.4.2 Anarhichadidae

Kobayashi, K., 1961

3.13.4.3 Clinidae

Sparta, A., 1948a

3.13.4.4 Stichaeidae

Fujita, S. & K. Uchida, 1959a
Schultz, L.P. & A.C. Delacy, 1932

3.13.4.5 Ptilichthyidae

Kobayashi, K., 1961a

3.13.5 Gobioidei

Dotu, Y., 1954; 1955; 1955a; 1955b; 1956; 1956a; 1957; 1957a; 1957b; 1957c
1957d; 1958; 1958a; 1958b; 1958c; 1959; 1959a; 1961
Dotu, Y. & S. Mito, 1955; 1955a; 1958
Dotu, Y., S. Mito & M. Ueno, 1955
Dotu, Y. & M. Shiogaki, 1971
Dotu, Y. & T. Tsutsumi, 1959
Ebert, E.E. & C.H. Turner, 1962
Lebour, M.V., 1919
Nakamura, S., 1936
Shmove, Yu. V., 1971
Sparta, A., 1934; 1934a; 1936; 1950
Weisel, G.F., Jr., 1947

3.13.6 Icosteidei (Icosteidae)

Allen, G.H., 1968

3.13.7 Labroidei

3.13.7.1 Labridae

Bolin, R.L. 1930
Cipria, G., 1939
Kubo, I., 1939
Salekhova, L.I., 1971
Sparta, A., 1930; 1931; 1932a; 1933; 1936a; 1936b; 1948

3.13.7.2 Family Scaridae

Cipria, G., 1939a
Winna, H.E. & J.E. Bardach, 1960

3.13.8 Mugiloidei (Mugilidae)

Altan, H., 1957a
Anderson, W.W., 1957; 1958
Pillay, S.R., 1972
Sanzo, L., 1936
Tung, I.S., 1973
Ysahouv, A. & E. Berner-Samsonov, 1970

3.13.9 Scombroidei

Gorbunova, N.N., 1974
Jones, S. & M. Kumaran, 1964

3.13.9.1 Scombridae

(For additional references refer to Richards and Klawe, 1972)/(voir Richards et Klawe, 1972 pour références bibliographiques supplémentaires)/(véase Richards y Klawe, 1972 para otras referencias bibliográficas)

Boonprakob, U. & Y. Dhebtaranan, 1972
Ciechomski, J.D. de, 1971c
Dekhnik, T.V., 1959
Fry, D.H., Jr., 1936
Gorbunova, N.N., 1974
Harada, T., O. Murata & H. Furntani, 1973
Harada, T., O. Murata & S. Migashito, 1973
Klawe, W.L., 1961; 1966
Kramer, D., 1960
Matsui, T., 1970
Matsumoto, W.M., 1958; 1959; 1967
Matsumoto, W.M. et al., 1972
Mori, K., 1967
Mori, K., S. Ueyanagi & Y. Nichikawa, 1971
Potthoff, T., 1974
Richards, W.J. & G.R. Dove, 1971
Richards, W.J. & W.L. Klawe, 1972
Richards, W.J. & T. Potthoff, 1974
Roedel, P.M., 1949
Sanzo, L., 1932
Scaccini, A. et al., 1973
Ueyanagi, S., 1969
Wade, C.B., 1951
Watanabe, H. et al., 1966
Watanabe, T., 1970
Wollam, M.B., 1969; 1970
Yasutake, H., G. Nishi & K. Mori, 1973
Yoshida, H.O., 1971

3.13.9.2 Gempylidae and Trichiuridae

DeJager, D.v.D., 1955
Jones, S., 1960
Strasburg, D.W., 1964
Struberg, A., 1918
Tsukahara, H., 1961
Voss, N.A., 1954
Wiktor, K., 1970

3.13.9.3 Istiophoridae - Xiphiidae

Arata, G.F., Jr., 1954
Bartlett, M.R. & R.L. Haedrich, 1968
Caldwell, D.K., 1962
DeSylva, D.P., 1963
Eschmeyer, W.N. & H.R. Bullis, Jr., 1968
Gehringer, J.W., 1956; 1970
Gorbunova, N.N., 1969
Jones, S. & M. Kumaran, 1964
Laurs, R.M. & R.N. Nichimoto, 1970
Nakamura, I., 1968
Sanzo, L., 1922; 1930
Sella, M. 1911
Sparta, A., 1953; 1961
Taning, A.V., 1955
Tibbo, S.N. & L.M. Lauzier, 1969
Ueyanagi, S., 1959; 1960; 1960a; 1962; 1962a 1963; 1964; 1964a; 1974; 1974a
Ueyanagi, S. & H. Yabe, 1959
Ueyanagi, S. et al., 1970
Voss, G.L., 1953
Yabe, H., 1951
Yabe, H. et al., 1959

3.13.10 Sphyraenoidei (Sphryaenidae)

Houde, E.D., 1972
Orton, G.L. 1955a
Shojima, Y., S. Fujita & K. Uchida, 1957

3.13.11 Stromateoidei

Colton, J.B. & K.A. Honey, 1963
Grey, M., 1955
Legaspi, V.A., 1956
McKenney, T.W., 1961
Mito, S. & T. Senta, 1967
Sanzo, L., 1932a
Sparta, A., 1929a; 1946

3.13.12 Trachinoidei

Mito, S., 1956b; 1962

3.14 Pleuronectiformes

3.14.1 Bothidae

Amaoka, K., 1964; 1970; 1971; 1972
Dekhnik, T.V., 1971
Deubler, E.E., 1958
Futch, C.R., 1971
Futch, C.R. & F.H. Hoff, Jr., 1971
Gutherz, E.J., 1971
Leonard, S.B., 1971
Miller, D. & R. Marak, 1962
Nielsen, J.G., 1963
Ochiai, A. & K. Amaoka, 1963
Okiyama, M., 1967
Richardson, S.L. & E.B. Joseph, 1973
Smith, W.G. & M.P. Fahay, 1970
Uchida, K., 1936

3.14.2 Pleuronectidae

Adron, J.W. et al., 1974
Dekhnik, T.V., 1959a
Fujita, S., 1965
Hagerman, F.B., 1952
Harry, G.Y., 1959
Hickman, C.P., Jr., 1959
Jensen, A.S., 1935
Musienko, L.M., 1954
Nichols, J.H., 1971
Okiyama, M., 1963
Orcutt, H.G., 1950
Orsi, J.J., 1968
Orton, G.L. & C. Limbaugh, 1953
Pearcy, W.G., 1962
Pertseva-Ostroumova, T.A., 1953; 1954; 1960; 1961
Petersen, C.G.J., 1904
Porter, P., 1964
Rapson, A.M., 1940
Robertson, D.A. & U. Raj, 1971
Schmidt, J., 1904
Takita, T. & S. Fujita, 1964
Takita, T., S. Fujita & Y. Sotsu, 1967
Taning, A.V., 1936
Van Cleve, R., 1936
Yusa, T., 1957; 1957a; 1958; 1960; 1960b; 1961; 1974

3.14.3 Scophthalmidae, Soleidae, Cynoglossidae

Balikrishnan, K.P. & C.B.L. Devi, 1974
Bensam, P., 1969
Fujita, S. & T. Takita, 1965
Fujita, S. & K. Uchida, 1957
Futch, C.R., 1970
Houde, E.D., C.R. Futch & R. Detwyler, 1970
Jones, A., 1972
Moore, E., 1947

3.14.4 General/Général/General

Papers dealing with life histories of fishes belonging to two or more families of flatfishes/Documents concernant le cycle de vie des poissons appartenant a deux ou plusiers familles de soles/Documentos referentes al ciclo vital de peces pertenecientes a dos o más familias de lenguados

Balakrishnan, K.P. & C.B.L. Devi, 1974
Hsiao-wei, C., X. Gui-Fen & X. Shaohen, 1965
Kyle, H.M., 1913
Pertseva-Ostroumova, T.A., 1965

3.15 Tetraodontiformes

Zharov, V.L. & A.M. Zhudova, 1967
Zhudova, A.M., 1969

3.15.1 Tetraodontidae

Fujita, S., 1956; 1956a; 1966
Fujita, S. & M. Ueno, 1956a
Shojima, Y., 1957

3.15.2 Triacanthidae

Ohsima, Y. & N. Nakamura, 1941

3.15.3 Molidae

Sherman, K., 1961

4. REFERENCES ON SPECIES IDENTIFICATION OF EGGS AND LARVAE, GROUPED GEOGRAPHICALLY/REFERENCES SUR L'IDENTIFICATION DES ESPECES D'OEUFS ET DE LARVES, GROUPEES SELON DES CRITERES GEOGRAPHIQUES/BIBLIOGRAFIA SOBRE IDENTIFICACION DE ESPECIES DE HUEVOS Y LARVAS, POR REGIONES GEOGRAFICAS

4.1 Northwest Atlantic/Atlantique nord-ouest/Atlántico noroeste

Bigelow, H.B. & W.C. Schroeder, 1953
Dannevig, A., 1919
Kuntz, A. & L. Radcliffe, 1917
Mansueti, A.G. & J.D. Hardy, Jr., 1967
Mansueti, R. (comp.), 1954
Shih, G.T., A.J.G. Figueira & E.H. Grainger, 1971

4.2 Northeast Atlantic/Atlantique nord-est/Atlántico nordeste

Arbault, S. & N. Boutin, 1968
Ehrenbaum, E., 1905 & 1909
Einarsson, H., 1966
Hureau, J.C. & Th. Monod, 1973
Kazanova, I.I., 1953
Kiliachen Kova, V.A., 1970
Rass, T.S., 1949

4.3 Mediterranean and Black Sea/Mediterranée et Mer noire/Mediterráneo y Mar Negro

Aboussouan, A., 1964
Arim, N., 1957
D'Ancona, U. et al., 1931 to 1956
Demir, N., 1969
Fage, L., 1918
Hureau, J.C. & Th. Monod, 1973
Marinaro, J.Y., 1971
Vodjaniskii, V.A. & I.I. Kazanova, 1954

4.4 Northwest Pacific/Pacifique nord-ouest/Pacífico noroeste

Day, D.S. et al., 1971
Mito, S., 1960a; 1960b; 1961; 1961a; 1961b; 1962; 1962a; 1962b; 1962c; 1963; 1963a; 1963b; 1963c
Shih et al., 1971
Uchida, K. et al., 1958

4.5 Northeast Pacific /Pacifique nord-est/Pacífico nordeste

No comprehensive paper/Aucune étude compréhensive/Ninguna referencia comprensiva

4.6 Eastern Central Atlantic/Atlantique centre-est/Atlántico centro-oriental

Aboussouan, A., 1965; 1966; 1966a; 1967; 1968; 1968a; 1968b; 1972; 1972a; 1972b
Zhudova, A.M., 1969

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